

CARBOHYDRATE RESEARCH, VOL. 181 (1988)

AUTHOR INDEX

ABBAS, S. A., 236
 ANTONAKIS, K., 217
 ARNOTT, S., 23

BARBALAT-REY, F., 97
 BEIGELMAN, L. N., 77
 BERNADINELLI, G., 97
 BOUCIAS, D. G., 282

CESÀRO, A., 13
 CHANDRA GUPTA, P., 287
 CHANDRASEKARAN, R., 23
 CHIDA, N., 57
 COTE, G. L., 143
 CYONG, J.-C., 175

DAIS, P., 233
 DELBEN, F., 13
 DELL, A., 153
 DELMER, D. P., 273
 DUBEY, R., 236

EHLER, D. S., 125
 ESSIG, M. G., 189

FLAIBANI, A., 13
 FLORENT, J.-C., 253
 FOURNET, B., 282

GAO, Q.-P., 175
 GAREGG, P. J., 89
 GIL-SERRANO, A., 278
 GUPTA, R., 287
 GURSKAYA, G. V., 77

HACKLAND, P. L., 153
 HARA, C., 207
 HASHIMOTO, H., 267
 HAYASHI, T., 273
 HEUSINGER, H., 67

IMBERTY, A., 41
 INOUE, K., 135
 INOUE, S., 229
 IWASAKI, M., 229

JOYCE, K. L., 23

KADOYA, S., 135
 KELLY, M. A., 262

KIHO, T., 207
 KIMURA, N., 57
 KIYOHARA, H., 175
 KIYO-OKA, S., 197
 KOCHETKOV, N. K., 1
 KORENAGA, H., 135
 KRULL, L. H., 143

LACOMBE, J. M., 246
 LATGÉ, J.-P., 282
 LECLERCQ, F., 217
 LIPKIND, G. M., 1

MAMYAN, S. S., 1
 MATSUDA, K., 197
 MATTÀ, K. L., 236
 MIKHAILOV, S. N., 77
 MIYAMOTO, I., 207
 MONNERET, C., 253

NAGAI, K., 207

OGAWA, K., 197
 OGAWA, S., 57
 OSCARSON, S., 89

PANZA, L., 242
 PAOLETTI, S., 13
 PAROLIS, H., 153
 PAVIA, A. A., 246
 PÉREZ, S., 41
 PERLIN, A. S., 233
 PUIGJANER, L. C., 23

RACHIDZADEH, F., 97
 RAKOTOMANOMANA, N., 246
 REILLY, P. J., 163
 RICHARDS, G. N., 189
 RITZÉN, H., 89
 ROBYT, J. F., 163
 RONCHETTI, F., 242

SAKOMOTO, N., 135
 SATHYANARAYANA, B. K., 223
 SHASHKOV, A. S., 1
 SHIBATA, Y., 57
 SINCLAIR, H. B., 115
 SINNOTT, M. L., 262
 STEVENS, E. S., 223
 SUZUKI, T., 267

TAGAMI, Y., 267
TAMARI, K., 197
TANAKA, N. G., 135
TAO, B. Y., 163
TEJERO-MATEO, P., 278
TILLER, P. R., 153
TOMA, L., 242
TRONCHET, J. F., 97
TRONCHET, J. M. J., 97
TSAPKINA, E. N., 77

UGHETTO-MONFRIN, J., 253
UKAI, S., 207
UNKEFER, C. J., 125

WALKER, T. E., 125
WIDDOWS, D., 262

YAMADA, H., 175
YAMAURA, M., 267
YOKOI, S., 57
YOSHIMURA, J., 267

CARBOHYDRATE RESEARCH, VOL. 181 (1988)

SUBJECT INDEX

Action of ultrasound on deoxygenated aqueous solutions of D-glucose, 67

Aminoglycal derivatives, synthesis of, precursors of glycosidic moieties of antitumor anthracyclines, 253

Amylosucrase: characterization of its product polysaccharide and a study of its inhibition by sucrose derivatives, *Neisseria perflava*, 163

Angiogenesis, embryonic, inhibition by sulfated polysaccharide-peptidoglycan from *Arthrobacter* sp. of, 135

1,5-Anhydro- β -L-arabinofuranose from pyrolysis of plant cell-wall materials (biomass), 189

Anhydro-D-fructopyranosides prepared from D-mannitol, two methyl, 115

Anti-complementary acidic heteroglycans from the leaves of *Panax ginseng* C. A. Meyer, characterization of, 175

Arthrobacter sp., inhibition of embryonic angiogenesis and tumor growth by sulfated polysaccharide-peptidoglycan from, 135

Aryl α -L-arabinofuranosides as substrates for arabinofuranosidase, preparation of some, 262

Assignment of the O-acetyl carbonyl carbon atoms of cellulose triacetate via 2D, long-range, proton-carbon chemical-shift-correlation data, 233

Azoacetates, ring expansions in carbohydrate chemistry: *gem*, 97

Azotobacter chroococcum, characterization of the exocellular polysaccharides from, 143

Bacteriophage degradation of the capsular polysaccharide from *Klebsiella* K69: location of the O-acetyl groups, 153

(Biomass), 1,5-anhydro- β -L-arabinofuranose from pyrolysis of plant cell-wall materials, 189

tert-Butyl glycosides, a new approach to the synthesis and selective hydrolysis of, 246

^{13}C -N.m.r. study of the 6-deoxy-D-altropyranose-containing pentasaccharide chain present in a polysialoglycoprotein isolated from the eggs of *Salvelinus leucomaenoides pluvius*, 229

Candida utilis. Methylation analysis and fragmentation analysis by controlled acetolysis of the glucomannan, a glucomannan from *Candida utilis*, 197

Carbonyl carbon atoms of cellulose triacetate via 2D, long-range, proton-carbon chemical-shift correlation data, assignment of the O-acetyl, 233

Cation interactions in gellan: an X-ray study of the potassium salt, 23

Cellulose triacetate via 2D, long-range, proton-carbon chemical-shift-correlation data, assignment of the O-acetyl carbonyl carbon atoms of, 233

Characterization of anti-complementary acidic heteroglycans from the leaves of *Panax ginseng* C. A. Meyer, 175

Characterization of the exocellular polysaccharides from *Azotobacter chroococcum*, 143

Conformational features of α -panose crystal structure and, 41

Conformations of disaccharide glycosides, the nuclear Overhauser effect and structural factors determining the, 1

Cotton fiber, structure of xyloglucan from the cell walls of, 273

Crystal structure and conformational features of α -panose, 41

6-Deoxy-D-altropyranose-containing pentasaccharide chain present in a polysialoglycoprotein isolated from the eggs of *Salvelinus leucomaenoides pluvius*, a ^{13}C -n.m.r. study of the, 229

2-Deoxy-D-arabino-[6- ^{13}C]hexose, synthesis of, 125

Disaccharide glycosides, the nuclear Overhauser effect and structural factors determining the conformations of, 1

Epimerization during the acetolysis of 3-O-acetyl-5-O-benzoyl-1,2-O-isopropylidene-3-C-methyl- α -D-ribofuranose, 77

Expansions in carbohydrate chemistry: *gem*-azoacetates, ring, 97

α -L-Fucp-(1 \rightarrow 3)- β -D-GlcNAc-(1 \rightarrow 3)- β -D-Galp-(1 \rightarrow 3)- α - and β -D-GalpOC₆H₄NO₂(4), synthesis of, 236

Fungal preparation, Chán huā (*Cordyceps cicadae*), minor protein-containing galactomannans from the insect-body portion of the, 207

Fungus, *Nomuraea rileyi*, structure of polysaccharide produced by, 282

Galactomannans, minor protein-containing, from the insect-body portion of Chán huā (*Cordyceps cicadae*), 207

Gellan: an X-ray study of the potassium salt cation interactions in, 23

D-Glucan, produced by fungus, *Nomuraea rileyi* structure of, 282

D-Glucan, D-xylo-, from the cell walls of cotton fiber structure of, 273

Glucomannan from *Candida utilis*. Methylation analysis and fragmentation analysis by controlled acetolysis of the glucomannan, a 197

D-Glucose, action of ultrasound on deoxygenated aqueous solutions of, 67

Glyceraldehyde, synthesis of 2,3-O-isopropylidene- and 3-O-benzoyl-2-O-benzyl-2-C-methyl-L-, 267

Glycosides, a new approach to the synthesis and selective hydrolysis of *tert*-butyl, 246

Glycosidic moieties of antitumor anthracyclines, synthesis of aminoglycal derivatives as precursors of, 253

Glycuronans: u.v. absorption and circular dichroism spectra, the interaction of lead(II) with, 13

Gum, neutral, from seed of *Crotalaria verrucosa*, 287

Heteroglycans from the leaves of *Panax ginseng* C. A. Meyer, characterization of anti-complementary acidic, 175

Interaction of lead(II) with glycuronans: u.v. absorption and circular dichroism spectra, 13

2,3-O-Isopropylidene- and 3-O-benzoyl-2-O-benzyl-2-C-methyl-L-glyceraldehyde, synthesis of, 267

Ketohexose nucleosides, n.m.r. data on, 217

Klebsiella K69, bacteriophage degradation of the capsular polysaccharide from, and location of the O-acetyl groups, 153

Lead(II) with glycuronans: u.v. absorption and circular dichroism spectra, the interaction of, 13

β -D-ManpNAc-(1 \rightarrow 4)- α -D-GlcP-(1 \rightarrow 3)- α , β -L-Rhap, synthesis of, 242

D-Mannitol, two methyl anhydro-D-fructopyranosides prepared from, 115

Methyl anhydro-D-fructopyranosides prepared from D-mannitol, two, 115

Methylation analysis and fragmentation analysis by controlled acetolysis of the glucomannan, a glucomannan from *Candida utilis*, 197

Minor, protein-containing galactomannans from the insect-body portion of the fungal preparation Chán huā (*Cordyceps cicadae*), 207

Mucin-type tetrasaccharides synthesis of, 236

N.m.r. data on ketohexose nucleosides, 217

Neisseria perflava amylosucrase: characterization of its product polysaccharide and a study of its inhibition by sucrose derivatives, 163

Neutral seed-gum from *Crotalaria verrucosa*, 287

Nomuraea rileyi, fungus, structure of polysaccharide produced by, 282

Nuclear Overhauser effect and structural factors determining the conformations of disaccharide glycosides, 1

Nucleosides, n.m.r. data on ketohexose, 217

Nucleosides with the β -D-ribo and α -D-arabino configurations, synthesis of 3'-C-methyl-, 77

Olive pulp, structural studies of a xyloglucan from, 278

α -Panose, crystal structure and conformational features of, 41

Polysaccharide from *Klebsiella* K69, bacteriophage degradation of the capsular, and location of the O-acetyl groups, 153

Polysaccharides, exocellular, from *Azotobacter chroococcum*, characterization of the, 143

Polysialoglycoprotein isolated from the eggs of *Salvelinus leucomaenis pluvius*, a 13 C-n.m.r. study of the 6-deoxy-D-altropyranose-containing pentasaccharide chain present in a, 229

Preparation of some aryl α -L-arabinofuranosides as substrates for arabinofuranosidase, 262

Pseudo-trehaloses, synthesis of, 57

Pyranosides and other carbohydrate model compounds, semiempirical sodium-D rotations of, 223

Pyrolysis of plant cell-wall materials (biomass), 1,5-anhydro- β -L-arabinofuranose from, 189

Ring expansions in carbohydrate chemistry: *gem*-azoacetates, 97

Rotations of pyranosides and other carbohydrate model compounds, semiempirical sodium-D, 223

Semiempirical sodium-D rotations of pyranosides and other carbohydrate model compounds, 223

Streptococcus pneumoniae type 19A polysaccharide, synthesis of trisaccharide from, 242

Substrates for arabinofuranosidase, preparation of some aryl α -L-arabinofuranosides as, 262

Sucrose derivatives, *Neisseria perflava* amylosucrase: characterization of its product polysaccharide and a study of its inhibition by sucrose derivatives, 163

Sucrose, synthesis of 6-O-acetyl-2,3,4-tri-O-[(S)-3-methylpentanoyl]-, a naturally occurring flavour precursor of tobacco, 89

Synthesis and selective hydrolysis of *tert*-butyl glycosides, a new approach to the, 246

Synthesis of 6-O-acetyl-2,3,4-tri-O-[(S)-3-methyl-

pentanoyl]sucrose, a naturally occurring flavour precursor of tobacco, 89

Synthesis of aminoglycal derivatives, precursors of glycosidic moieties of antitumor anthracyclines, 253

Synthesis of 2-deoxy-D-arabino-[6-¹³C]hexose, 125

Synthesis of 2,3-O-isopropylidene- and 3-O-benzoyl-2-O-benzyl-2-C-methyl-L-glyceraldehyde, 267

Synthesis of 3'-C-methylnucleosides with the β -D-ribo and α -D-arabino configurations, 77

Synthesis of pseudo-trehalose [(1,2,4/3,5)-2,3,4-trihydroxy-5-hydroxymethyl-1-cyclohexyl] D-glucopyranosides, 57

Tetrasaccharides, mucin-type synthesis of, 236

Tobacco, synthesis of 6-O-acetyl-2,3,4-tri-O-[(S)-3-methylpentanoyl]sucrose a naturally occurring flavour precursor of, 89

Trehaloses, synthesis of pseudo-, 57

Tumor growth, inhibition by sulfated polysaccharide-peptidoglycan from *Arthrobacter* sp. of, 135

Type 19A polysaccharide of *Streptococcus pneumoniae*, synthesis of trisaccharide component of, 242

Ultrasound, action of, on deoxygenated aqueous solutions of D-glucose, 67

X-ray study of the potassium salt cation interactions in gellan: an, 23

Xyloglucan from olive pulp, structural studies of a, 278

D-Xylo-D-glucan from the cell walls of cotton fiber, structure of, 273